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APPLICATION NO.	NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/717,945	17,945 11/19/2003		Jinn-Fa Wu	OR0323	9016
22192	7590	7590 05/11/2005		EXAMINER	
		IAUH & ASSOC.	ELVE, MARIA ALEXANDRA		
4224 WAIA STE 5-388	LAE AVE	<u> </u>	ART UNIT	PAPER NUMBER	
HONOLUL	U, HI 96	816	1725		
				DATE MAILED: 05/11/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/717,945	WU ET AL.					
Office Action Summary	Examiner	Art Unit					
Ti MAU NO DATE (U.	M. Alexandra Elve	1725					
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C.§ 133).					
Status							
1) Responsive to communication(s) filed on							
2a) This action is FINAL . 2b) ⊠	This action is non-final.						
3)☐ Since this application is in condition for all	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice un	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 8-11 is/are allowed. 6) ☐ Claim(s) 1 and 5-7 is/are rejected. 7) ☐ Claim(s) 2-4 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Exa 10) The drawing(s) filed on 19 November 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the call 11) The oath or declaration is objected to by the	3 is/are: a)⊠ accepted or b)□ o the drawing(s) be held in abeya orrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for for a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docur 2. ☐ Certified copies of the priority docur 3. ☐ Copies of the certified copies of the application from the International B * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94-3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	8) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 					

050509

Application/Control Number: 10/717,945

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Thomas et al. (USPN 5,906,459).

Thomas et al. discloses laser assisted milling whereby at least one laser beam is directed onto the workpiece. The laser beam(s) are directed onto the workpiece immediately upstream of the milling tool, behind the workpiece or parallel to the workpiece. The laser heated zone is directed towards the chamfered edge of the cutting zone; heating a zone immediately in front of the cutting edge and moved to advance the heating zone at the same speed and in the same direction as the cutting edge. (abstract, figures, col. 1-3)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas et al., as stated above and further in view of Wu et al. (USPN 5,413,439) and Aubin et al. (USPN 6,196,775).

Thomas et al. does not teach a machining tool and a laser head mounted on a tool mount or a chip spray.

Wu et al. discloses a universal spindle head for a machine tool. Figures 8 and 9 show differing embodiments which have two machining tools mounted on the mount. (abstract, figures 8-9, col. 2, col. 6) It would have been obvious to one of ordinary skill in the art at the time of the invention to use two machine tools mounted on the same mount, as taught by Wu et al. in the Thomas et al. system because it more make the machining process more efficient.

Aubin et al. discloses a system for the extraction of machining chips. A nozzle with gas and a vacuum assembly is used to remove chips. (abstract, figures, col. 2) It would have been obvious to one of ordinary skill in the art at the time of the invention to use chip removal, as taught by Aubin et al. in the Thomas et al. system because of the improved quality of the finished product.

Allowable Subject Matter

Claims 8-11 are allowed.

Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach the machine tool and laser separation or the use of digital thermometer in the machine tool handle.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 9, 2005.

M. Alexandra Elve

Primary Examiner 1725

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